

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/742,390	NISHIKI ET AL.	
	Examiner Dalei Dong	Art Unit 2879	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to Request for Continued Examination filed on April 30, 2004.
2.  The allowed claim(s) is/are 8-25.
3.  The drawings filed on 22 December 2002 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 8-25 are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art of record taken alone or in combination fails to teach or suggest a method of manufacturing a shadow mask assembly, comprising: applying a preliminary tension force having a magnitude in a range of 9.8 N to 490 N to each of four corners of an approximately rectangular shadow mask, the shadow mask having a perforation region including a plurality of elongated through-holes and having a pair of opposing shorter sides, each of the shorter sides having a curved center recess section, the preliminary tension force being applied in an outward direction aslant with respect to each side of the shadow mask; after said applying of the preliminary tension force, applying a main tension force to each of a pair of opposing sides of the shadow mask in an outward direction perpendicular to the opposing sides; and after said applying of the main tension force, fastening the shadow mask to side members of a support frame while the shadow mask is in the tensioned state, the support frame having an approximately rectangular shape.

The prior art of record teaches a method of manufacturing a shadow mask assembly by applying preliminary tension force and applying a main tension force, however prior art of record taken alone or in combination fails to teach or suggest applying a preliminary tension force having a magnitude in a range of 9.8 N to 490 N to each of four corners of an approximately rectangular shadow mask, the shadow mask

having a perforation region including a plurality of elongated through-holes and having a pair of opposing shorter sides, each of the shorter sides having a curved center recess section in order to effectively reduce the force expansion to thereby reduce uneven stress distribution within the plane of the shadow mask so as to ensure removal of wrinkles during application of the preliminary tension force.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following prior art are cited to further show the state of the art of a method of composition of a shadow mask.

U.S. Patent No. 4,636,683 to Tokita.

U.S. Patent No. 5,982,085 to Lakshmanan.

U.S. Patent No. 6,097,142 to Ko.

U.S. Patent No. 6,208,067 to Nakagawa.

U.S. Patent No. 6,642,642 to Watanabe.

Art Unit: 2879

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



D.D.

June 28, 2004



NIMESHKUMAR D. PATEL  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800